Supplementary instructions

Mounting bosses and adapters

Document ID: 32036

Contents

1 Product description

2 Welded socket - universal
2.1 Thread ... 4
2.2 Clamp ... 6
2.3 Hygienic fittings ... 9
2.4 Bolting DIN 11851 ... 12
2.5 Bolting DIN 11864-1 ... 15

3 Welded socket - VEGABAR series 10
3.1 VEGABAR 17 ... 17

4 Welded socket - VEGABAR series 50
4.1 VEGABAR 52 ... 19
4.2 VEGABAR 53 ... 20
4.3 VEGABAR 54 ... 22
4.4 VEGABAR 52, 54 - Paper industry ... 24

5 Welded socket - VEGABAR series 80
5.1 VEGABAR 82 ... 29
5.2 VEGABAR 82 - extension fitting ... 32
5.3 VEGABAR 83 ... 36

6 Welded socket - Level switch
6.1 VEGASWING 51, 61, 63 ... 39
6.2 VEGAKON 61 ... 40

7 Adapter
7.1 G¾ on Clamp DIN 32676, ISO 2852 ... 41
7.2 G¾ on bolting DIN 11851 ... 44
7.3 G¾ on further hygienic fittings ... 47
7.4 G1½ on Clamp DIN 32676, ISO 2852 ... 48

8 Welding instructions

9 Supplement
9.1 Technical data ... 51

Editing status: 2013-12-19

32036-EN-140108

1 Product description

Welded socket

Welded sockets are used to connect level and pressure sensors to the process.

Required process seal, depending on the version:

- Optionally in the scope of delivery of the mounting boss
- Sensor side

Accessory parts, depending on the version:

- Welding dummies
- Blind plug

Adapter

Adapters are used for adaptation of level and pressure sensors with connection G¾ or G1½ to existing welded sockets.

Required process seal, depending on the version:

- Optionally in the scope of delivery of the adapter
- Sensor side

32036-EN-140108

2 Welded socket - universal

2.1 Thread

Thread G½

Data:

Feature	Characteristic
Size	G½
Standard	DIN 3852-X
Pressure stage	PN 60
Material	316L
Product code/Art. no.	2.36839
Seal	Sensor side

Dimensions:

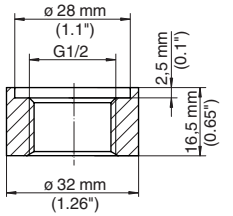

Fig. 1: Dimensions welded socket G½ (DIN 3852-X)

Thread G¾

Data:

Feature	Characteristic
Size	G¾
Standard	DIN 3852-X
Pressure stage	PN 60
Material	316L
Product code/Art. no.	2.36840
Seal	Sensor side

Dimensions:

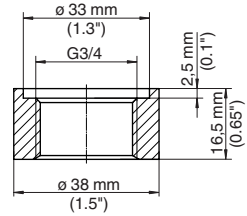

Fig. 2: Dimensions welded socket G¾ (DIN 3852-X)

Thread G1

Data:

Feature	Characteristic
Size	G1
Standard	DIN 3852-X
Pressure stage	PN 60
Material	316L
Product code/Art. no.	2.36841
Seal	Sensor side

Dimensions:

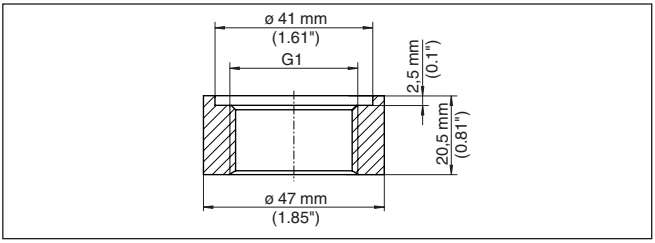

Fig. 3: Dimensions welded socket G1 (DIN 3852-X)

Thread G1½

Data:

Feature	Characteristic
Size	G1½
Standard	DIN 3852-X
Pressure stage	PN 60
Material	316L
Product code/Art. no.	2.36842
Seal	Sensor side

Dimensions:

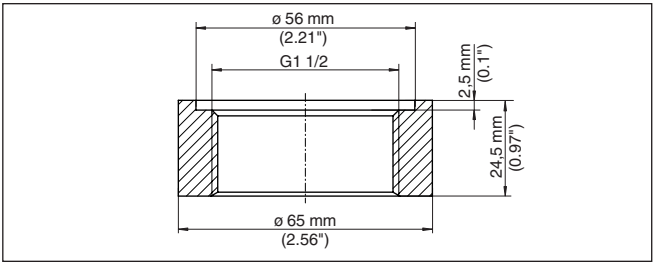

Fig. 4: Dimensions welded socket G1½ (DIN 3852-X)

2.2 Clamp

Clamp 1"

Data:

Component	Feature	Characteristic
Welded socket	Size	1"
	Standard	DIN 32676, ISO 2852
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	ESTC.AXX
Tension ring (optional)	Pressure stage	PN 16, PN 40
	Material	316L
Seal (optional)	Material	EPDM, FKM
	Configuration	Seal ring
	Size	ø 50.5 - 23.1 mm

Dimensions:

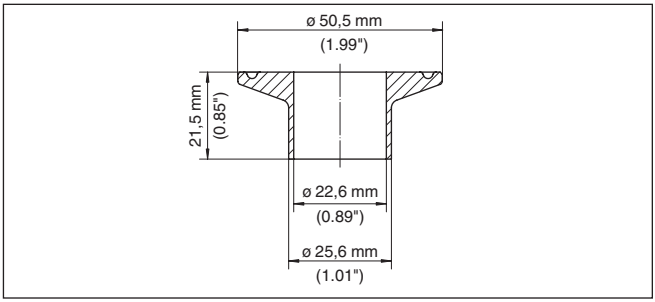

Fig. 5: Dimensions welded socket Clamp 1" (DIN 32676, ISO 2852) PN 16

Clamp 1½"

Data:

Component	Feature	Characteristic
Welded socket	Size	1½"
	Standard	DIN 32676, ISO 2852
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	ESTC.BXX
Tension ring (optional)	Pressure stage	PN 16, PN 40
	Material	316L
Seal (optional)	Material	EPDM, FKM
	Configuration	Seal ring
	Size	ø 50.5 - 35.3 mm

Dimensions:

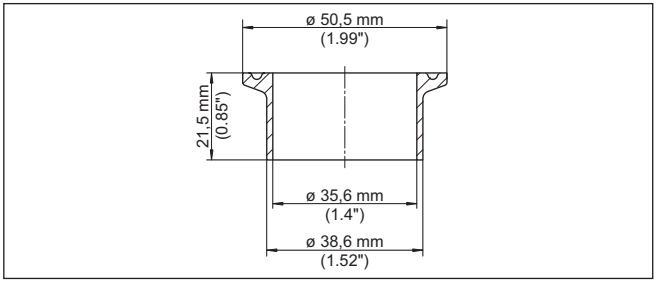

Fig. 6: Dimensions welded socket Clamp 1½" (DIN 32676, ISO 2852) PN 16

Clamp 2"

Data:

Component	Feature	Characteristic
Welded socket	Size	2"
	Standard	DIN 32676, ISO 2852
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	ESTC.CXX
Tension ring (optional)	Pressure stage	PN 16, PN 40
	Material	316L
Seal (optional)	Material	EPDM, FKM
	Configuration	Seal ring
	Size	ø 64 - 48 mm

Dimensions:

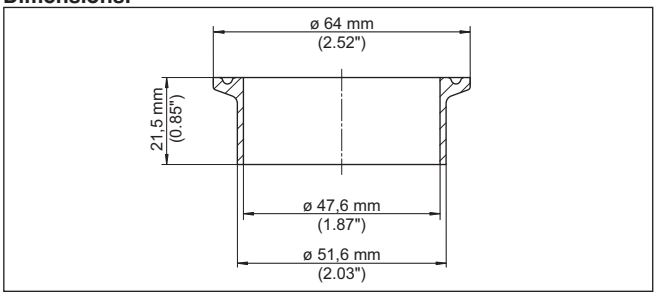

Fig. 7: Dimensions welded socket Clamp 2" (DIN 32676, ISO 2852) PN 16

Clamp 2½"

Data:

Component	Feature	Characteristic
Welded socket	Size	2½"
	Standard	DIN 32676, ISO 2852
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	ESTC.DXX
Tension ring (optional)	Pressure stage	PN 16, PN 40
	Material	316L
Seal (optional)	Material	EPDM, FKM
	Configuration	Seal ring
	Size	ø 77.5 - 60.7 mm

Dimensions:

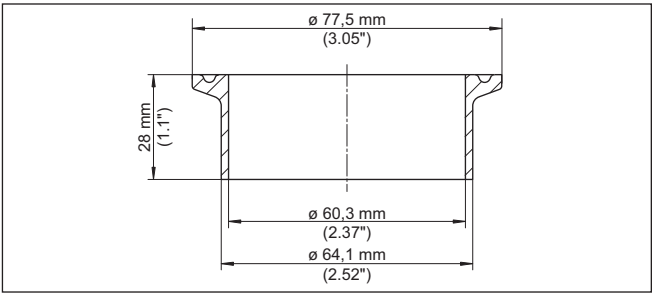

Fig. 8: Dimensions welded socket Clamp 2½" (DIN 32676, ISO 2852) PN 16

Clamp 3"

Data:

Component	Feature	Characteristic
Welded socket	Size	3"
	Standard	DIN 32676, ISO 2852
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	ESTC.EXX
Tension ring (optional)	Pressure stage	PN 16, PN 40
	Material	316L
Seal (optional)	Material	EPDM, FKM
	Configuration	Seal ring
	Size	ø 91 - 72.3 mm

Dimensions:

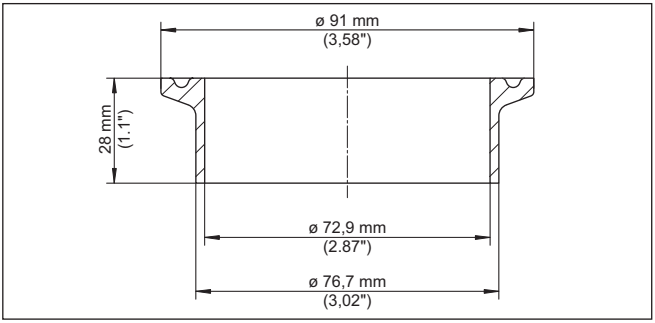

Fig. 9: Dimensions welded socket Clamp 3" (DIN 32676, ISO 2852) PN 16

2.3 Hygienic fittings

Hygienic fitting LA

Data:

Component	Feature	Characteristic
Welded socket	Size	Rd 65 x 1/6
	Standard	-
	Pressure stage	PN 25
	Material	316L
	Product code/Art. no.	ESTA.LAXX
Seal (optional)	Material	EPDM
	Configuration	O-ring
	Size	40 x 5 mm
Welding dummy	Material	316L
	Product code/Art. no.	DMONT.A
Blind plug	Material	316L
	Product code/Art. no.	DMONT.B1

Dimensions:

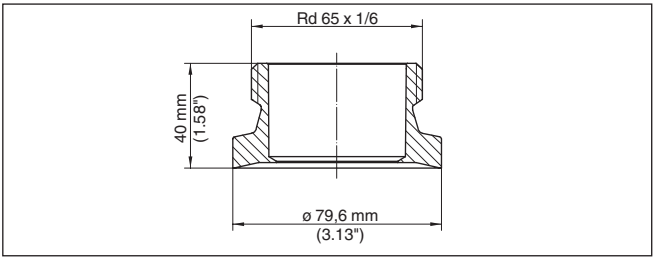

Fig. 10: Dimensions welded socket LA for compression nut

Hygienic fitting LB

Data:

Component	Feature	Characteristic
Welded socket	Size	ø 90
	Standard	-
	Pressure stage	PN 25
	Material	316L
	Product code/Art. no.	ESTA.LBXX
Seal (optional)	Material	EPDM
	Configuration	O-ring
	Size	40 x 5 mm
Welding dummy	Material	316L
	Product code/Art. no.	DMONT.C
Blind plug	Material	316L
	Product code/Art. no.	DMONT.D

Dimensions:

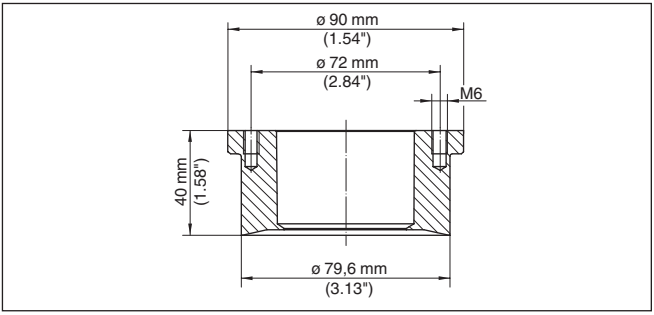

Fig. 11: Dimensions welded socket LB for tension flange

DRD connection

Data:

Component	Feature	Characteristic
Welded socket	Size	ø 105
	Standard	-
	Pressure stage	PN 40
	Material	316L
	Product code/Art. no.	ESTD.AAXX
Seal (optional)	Material	PTFE
	Configuration	Flat seal
	Size	50 x 66 x 1 mm

Dimensions:

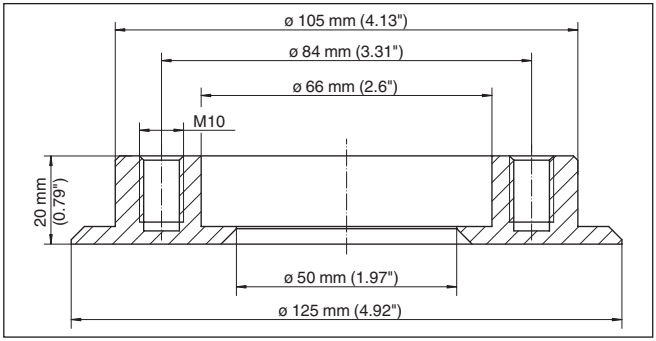

Fig. 12: Dimensions welded socket DRD

Cone connection DN 25/ Rd52 x 2

Data:

Component	Feature	Characteristic
Welded socket	Size	DN 25
	Standard	-
	Pressure stage	-
	Material	316Ti
	Product code/Art. no.	ESTK.KAXX
Seal (optional)	Material	EPDM

Dimensions:

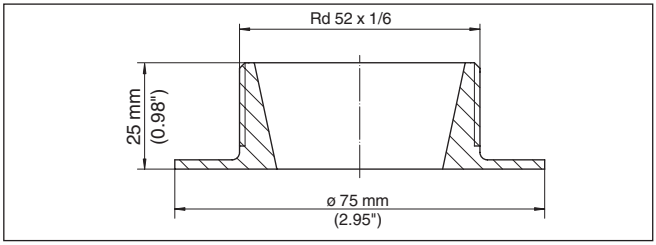

Fig. 13: Dimensions welded socket conus connection DN 25

Cone connection DN 25/ M52 x 2

Data:

Component	Feature	Characteristic
Welded socket	Size	DN 25
	Standard	-
	Pressure stage	-
	Material	316Ti
	Product code/Art. no.	ESTK.KBXX
Seal (optional)	Material	EPDM

Dimensions:

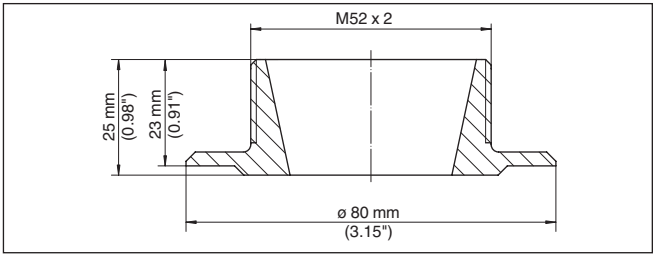

Fig. 14: Dimensions welded socket conus connection M52 x 2

2.4 Bolting DIN 11851

Bolting DN 25

Data:

Component	Feature	Characteristic
Welded socket	Size	DN 25
	Standard	DIN 11851
	Pressure stage	PN 40
	Material	316L
	Product code/Art. no.	ESTR.DA1X
Seal (optional)	Material	FKM, EPDM, NBR
	Configuration	Seal ring
	Size	30 x 40 x 4.5 mm

Dimensions:

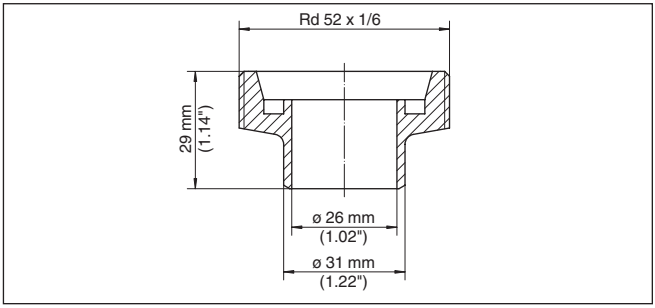

Fig. 15: Dimensions welded socket, bolting DN 25 (DIN 11851)

Bolting DN 40

Data:

Component	Feature	Characteristic
Welded socket	Size	DN 40

Component	Feature	Characteristic
	Standard	DIN 11851
	Pressure stage	PN 40
	Material	316L
	Product code/Art. no.	ESTR.FA1X
Seal (optional)	Material	FKM, EPDM, NBR
	Configuration	Seal ring
	Size	42 x 52 x 5 mm

Dimensions:

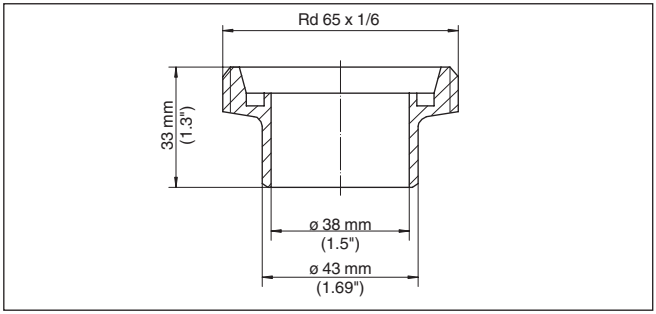

Fig. 16: Dimensions welded socket, bolting DN 40 (DIN 11851)

Bolting DN 50

Data:

Component	Feature	Characteristic
Welded socket	Size	DN 50
	Standard	DIN 11851
	Pressure stage	PN 25
	Material	316L
	Product code/Art. no.	ESTR.GA1X
Seal (optional)	Material	FKM, EPDM, NBR
	Configuration	Seal ring
	Size	54 x 64 x 5 mm

Dimensions:

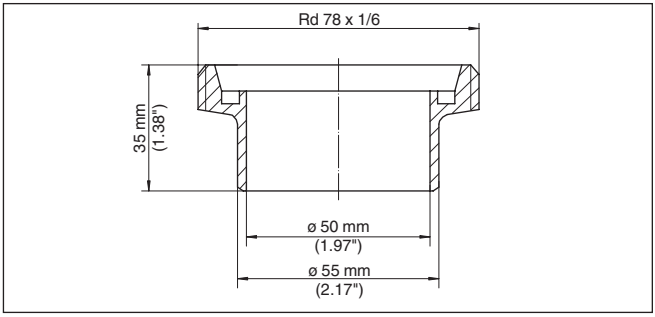

Fig. 17: Dimensions welded socket, bolting DN 50 (DIN 11851)

Bolting DN 80

Data:

Component	Feature	Characteristic
Welded socket	Size	DN 80
	Standard	DIN 11851
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	ESTR.IA1X
Seal (optional)	Material	EPDM, NBR
	Configuration	Seal ring
	Size	85 x 95 x 5 mm

Dimensions:

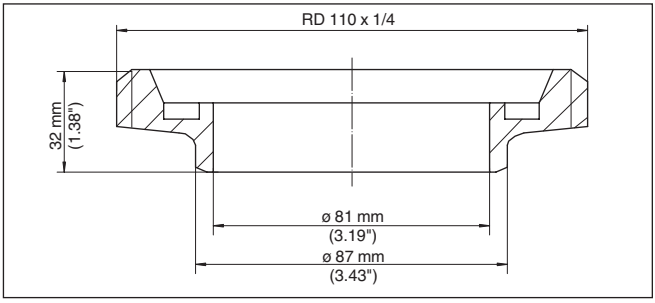

Fig. 18: Dimensions welded socket, bolting DN 80 (DIN 11851)

Bolting DN 100

Data:

Component	Feature	Characteristic
Welded socket	Size	DN 80
	Standard	DIN 11851
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	ESTR.JA1X
Seal (optional)	Material	EPDM
	Configuration	Seal ring
	Size	104 x 114 x 6 mm

Dimensions:

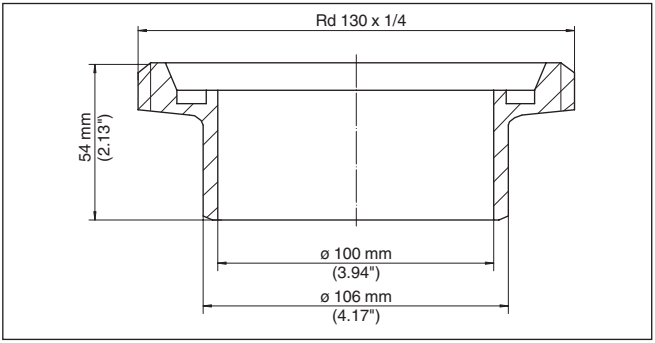

Fig. 19: Dimensions welded socket, bolting DN 100 (DIN 11851)

2.5 Bolting DIN 11864-1

Bolting DN 40

Data:

Component	Feature	Characteristic
Welded socket	Size	DN 40
	Standard	DIN 11864-1
	Pressure stage	PN 25
	Material	316L
	Product code/Art. no.	ESTR.FBXX
Seal (optional)	Material	FKM, EPDM, NBR
	Configuration	Seal ring
	Size	40 x 5 mm

Dimensions:

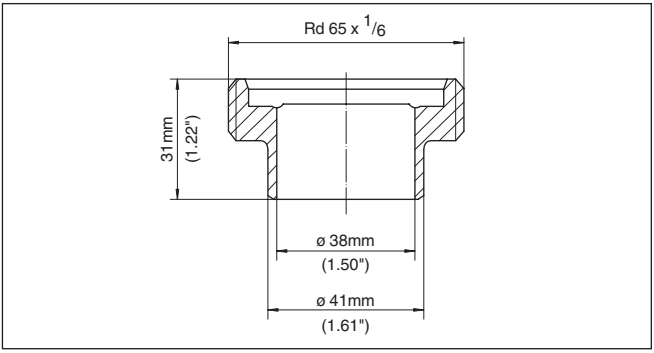

Fig. 20: Dimensions welded socket DN 40 (DIN 11864-1)

Bolting DN 50

Data:

Component	Feature	Characteristic
Welded socket	Size	DN 50
	Standard	DIN 11864-1
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	ESTR.GBXX
Seal (optional)	Material	FKM, EPDM, NBR
	Configuration	Seal ring
	Size	40 x 5 mm

Dimensions:

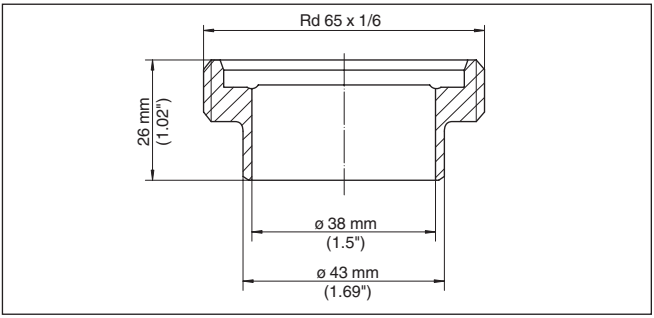

Fig. 21: Dimensions welded socket DN 50 (DIN 11864-1)

3 Welded socket - VEGABAR series 10

3.1 VEGABAR 17

Thread G½ B - vessel

Data:

Feature	Characteristic
Size	G½ B
Standard	ISO 228-1
Pressure stage	PN 60
Material	316Ti
Product code/Art. no.	ESMBR17.86*IXTX
Seal	Sensor side

Dimensions:

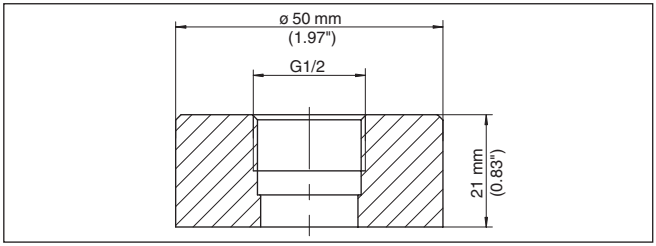

Fig. 22: Dimensions welded socket G½ B (ISO 228-1) - vessel

Thread G½B - pipeline

Data:

Feature	Characteristic
Size	G½ B
Standard	ISO 228-1
Pressure stage	PN 60
Material	316Ti
Product code/Art. no.	ESMBR17.86*AXVX
Seal	Sensor side

Dimensions:

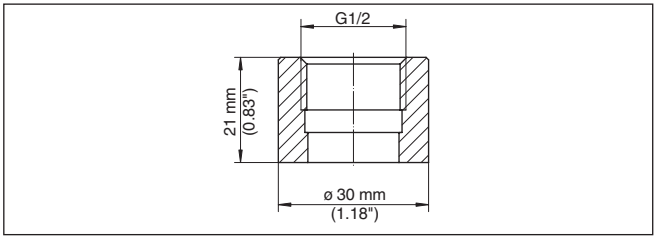

Fig. 23: Dimensions welded socket thread G½ B (ISO 228-1) - pipeline

Thread G1 B

Data:

Feature	Characteristic
Size	G½ B
Standard	ISO 228-1
Pressure stage	PN 16
Material	316Ti
Product code/Art. no.	ESMBR17.85*IXTX
Seal	Sensor side

Dimensions:

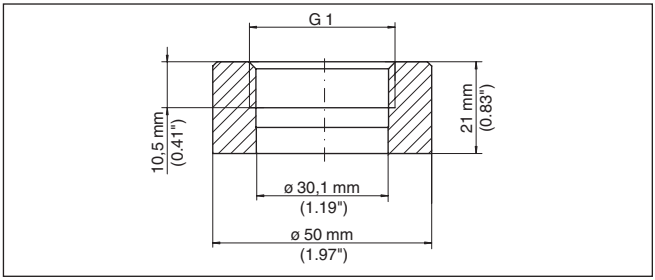

Fig. 24: Dimensions welded socket G1 B (ISO 228-1)

Thread G1 hygienic

Data:

Feature	Characteristic
Size	G1
Standard	-
Material	316Ti
Product code/Art. no.	ESMBR17.85*IXTX
Seal	Sensor side

Dimensions:

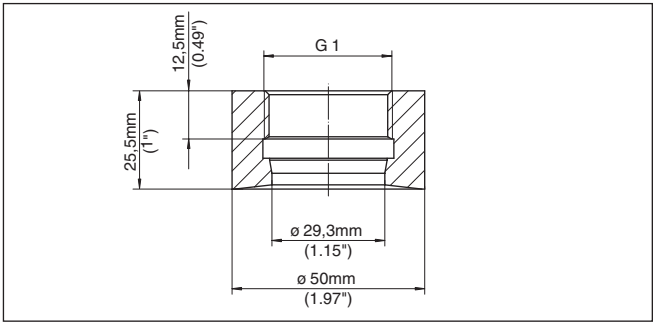

Fig. 25: Dimensions welded socket G1 aseptic

4 Welded socket - VEGABAR series 50

4.1 VEGABAR 52

Thread G½

Data:

Feature	Characteristic
Size	G½
Standard	EN 837
Pressure stage	PN 60
Material	316L
Product code/Art. no.	ESMBR52.GVBKVX
Seal	Sensor side

Dimensions:

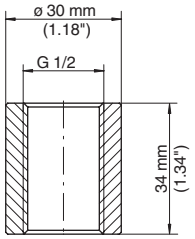

Fig. 26: Dimensions welded socket thread G½ (EN 837)

Thread G1

Data:

Feature	Characteristic
Size	G1
Standard	ISO 228-1
Pressure stage	PN 60
Material	316L
Product code/Art. no.	ESMBR52.GCBKVX
Seal	Sensor side

Dimensions:

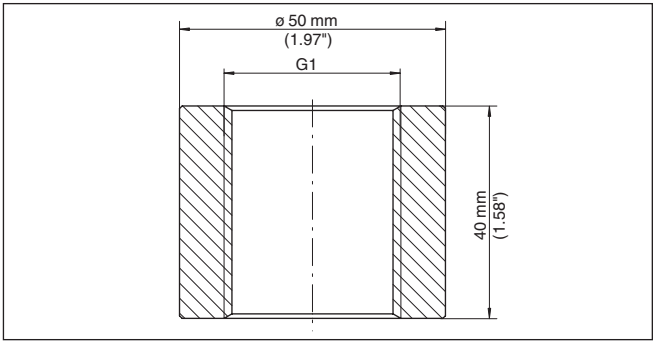

Fig. 27: Dimensions welded socket thread G1 (ISO 228-1) x 40 mm

Thread G1½

Data:

Feature	Characteristic
Size	G1½
Standard	ISO 228-1
Pressure stage	PN 60
Material	316L
Product code/Art. no.	ESMBR52.GGBKVX
Seal	Sensor side

Dimensions:

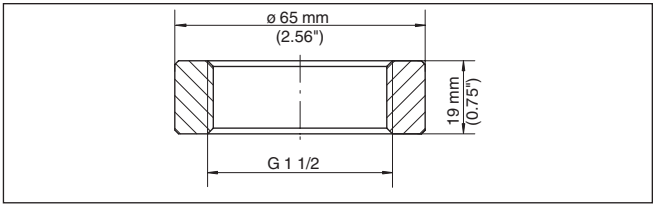

Fig. 28: Dimensions welded socket thread G1½ (ISO 228-1)

4.2 VEGABAR 53

Thread G½ B - vessel

Data:

Feature	Characteristic
Size	G½ B
Standard	ISO 228-1
Pressure stage	PN 60
Material	316Ti
Product code/Art. no.	ESMBR53.GFIXTX
Seal	Sensor side

Dimensions:

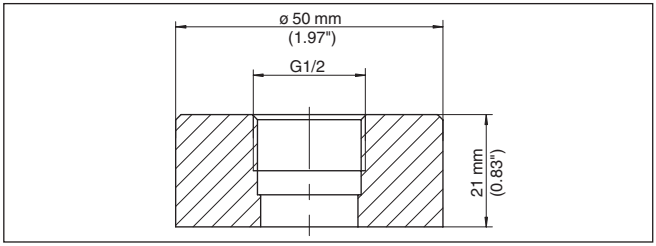

Fig. 29: Dimensions welded socket G½ B (ISO 228-1) - vessel

Thread G½B - pipeline

Data:

Feature	Characteristic
Size	G½ B
Standard	ISO 228-1
Pressure stage	PN 60
Material	316Ti
Product code/Art. no.	ESMBR53.GFAXVX
Seal	Sensor side

Dimensions:

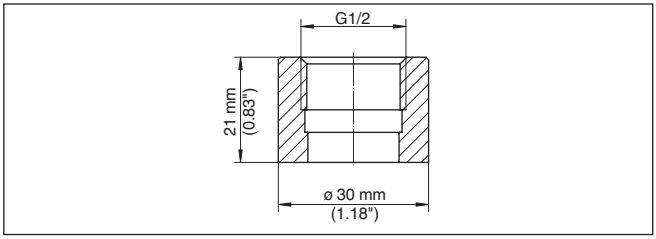

Fig. 30: Dimensions welded socket G½ B (ISO 228-1) - pipeline

Thread G1 B

Data:

Feature	Characteristic
Size	G1 B
Standard	ISO 228-1
Pressure stage	PN 16
Material	316Ti
Product code/Art. no.	ESMBR53.GCIXTX
Seal	Sensor side

Dimensions:

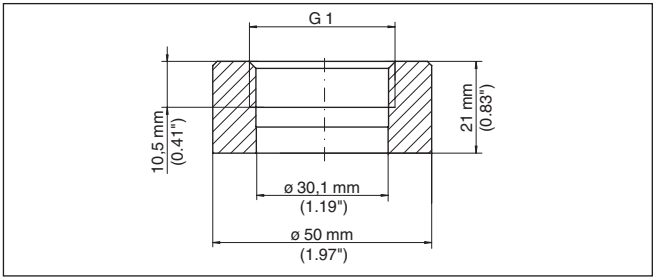

Fig. 31: Dimensions welded socket G1 B (ISO 228-1)

Thread G1 B hygienic

Data:

Feature	Characteristic
Size	G1 B
Standard	ISO 228-1
Pressure stage	PN 16
Material	316Ti
Product code/Art. no.	ESMBR53.GEJXVX
Seal	Sensor side

Dimensions:

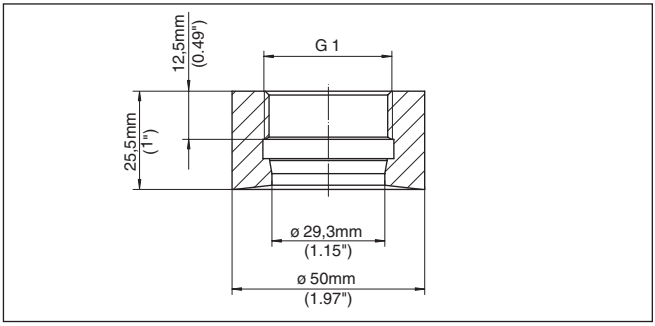

Fig. 32: Dimensions welded socket G1 B (ISO 228-1) aseptic

4.3 VEGABAR 54

Thread G½

Data:

Feature	Characteristic
Size	G½
Standard	ISO 228-1
Pressure stage	PN 60
Material	316L
Product code/Art. no.	ESMBR54.GBAXVX

Feature	Characteristic
Seal (optional)	FFKM

Dimensions:

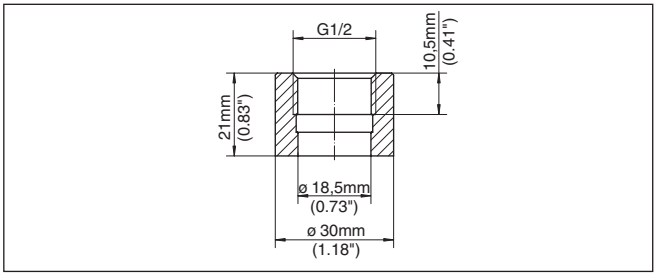

Fig. 33: Dimensions welded socket G½ (ISO 228-1)

Thread G¾

Data:

Feature	Characteristic
Size	G¾
Standard	DIN 3852-X
Pressure stage	PN 60
Material	316L
Product code/Art. no.	ESMBR54.GBAXVX
Seal (optional)	FKM, EPDM, FFKM

Dimensions:

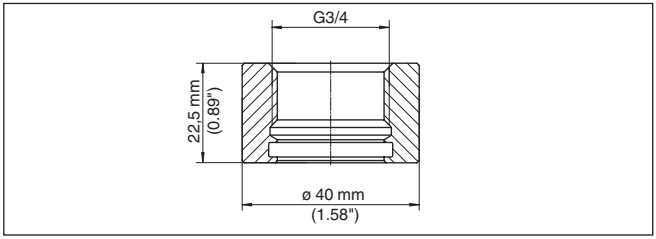

Fig. 34: Dimensions welded socket G¾ (DIN 3852-X)

Thread G1

Data:

Feature	Characteristic
Size	G1
Standard	ISO 228-1
Pressure stage	PN 60
Material	316TI
Product code/Art. no.	ESMBR54.GCIXTX
Seal (optional)	FFKM

Dimensions:

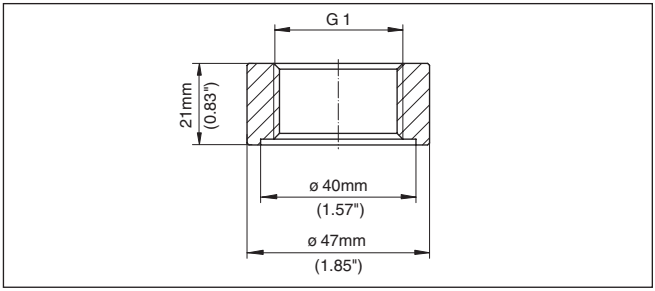

Fig. 35: Dimensions welded socket G1 (ISO 228-1)

4.4 VEGABAR 52, 54 - Paper industry

M30 x 1.5

Data:

Component	Feature	Characteristic
Welded socket	Size	M30 x 1.5
	Standard	-
	Pressure stage	PN 60
	Material	316L
	Product code/Art. no.	ESMBR54.BFGXVX E
Seal		Sensor side
Welding dummy	Material	Brass
	Product code/Art. no.	DMONT.G
Blind plug	Material	316Ti
	Product code/Art. no.	DMONT.I

Dimensions:

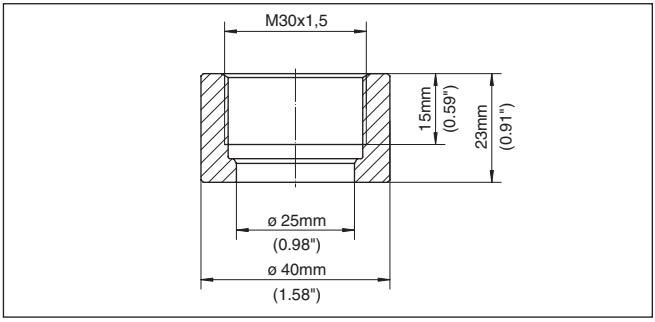

Fig. 36: Dimensions welded socket M30 x 1.5, VEGABAR 54

M30 x 1.5 for headbox

Data:

Component	Feature	Characteristic
Welded socket	Size	M30 x 1.5
	Standard	-
	Pressure stage	PN 60
	Material	316L
	Product code/Art. no.	ESMBR54.BSGXVX
Seal		Sensor side
Welding dummy	Material	Brass
	Product code/Art. no.	DMONT.G
Blind plug	Material	316Ti
	Product code/Art. no.	DMONT.I

Dimensions:

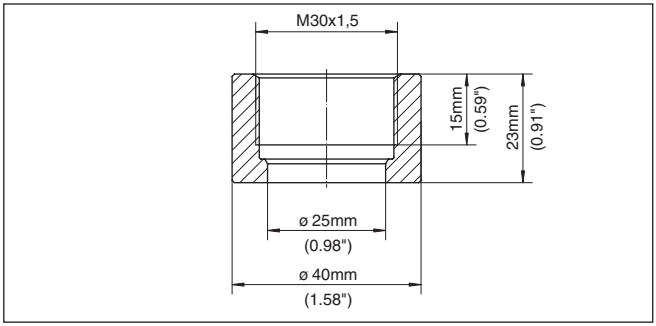

Fig. 37: Dimensions welded socket M30 x 1.5 VEGABAR 54 for headbox

M44 x 1.25

Data:

Component	Feature	Characteristic
Welded socket	Size	M44 x 1.25
	Standard	-
	Pressure stage	PN 60
	Material	316L
	Product code/Art. no.	ESMBR**.B*MXVX
Seal (optional)	Material	FKM, FFKM
Welding dummy	Material	Brass
	Product code/Art. no.	DMONT.F
Blind plug	Material	316Ti
	Product code/Art. no.	DMONT.H

Dimensions:

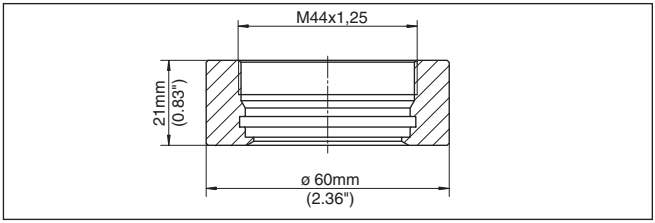

Fig. 38: Dimensions welded socket M44 x 1.25, VEGABAR 52

M48 x 1.5

Data:

Component	Feature	Characteristic
Welded socket	Size	M48 x 1.5
	Standard	-
	Pressure stage	PN 60
	Material	316L
	Product code/Art. no.	ESMBR52.DGSXVX
Seal (optional)	Material	FKM, FFKM
Welding dummy	Material	Brass
	Product code/Art. no.	DMONT.F
Blind plug	Material	316Ti
	Product code/Art. no.	DMONT.H

Dimensions:

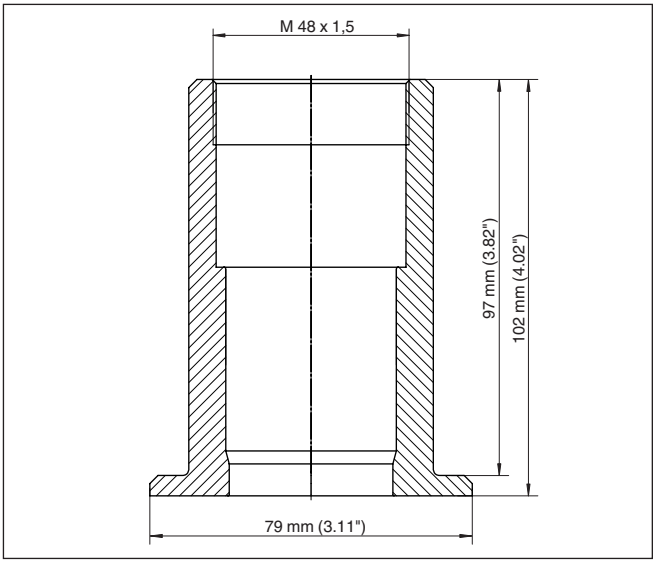

Fig. 39: Dimensions welded socket M48 x 1.5, VEGABAR 52

G1 suitable for PASVE

Data:

Component	Feature	Characteristic
Welded socket	Size	G1
	Standard	ISO 228-1
	Pressure stage	PN 40
	Material	316L
	Product code/Art. no.	ESMBR54.VPHXVX
Seal		Sensor side
Welding dummy	Material	Brass
	Product code/Art. no.	DMONT.S
Blind plug	Material	316Ti
	Product code/Art. no.	DMONT.P

Dimensions:

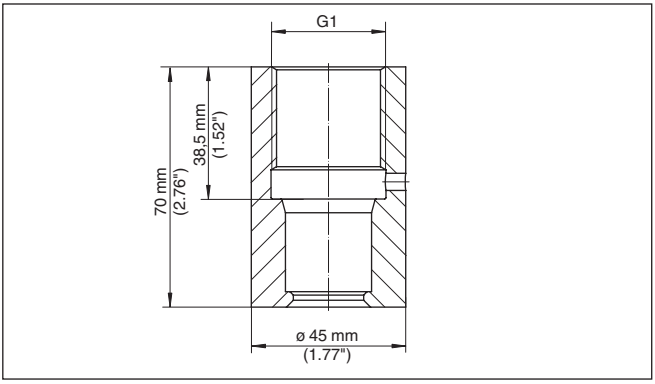

Fig. 40: Dimensions welded socket G1" suitable for PASVE VEGABAR 54

PMC 1"

Data:

Feature	Characteristic
Size	1"
Standard	-
Pressure stage	PN 6
Material	316TI
Product code/Art. no.	ESMBR54.PCDXVX
Seal	Sensor side

Dimensions:

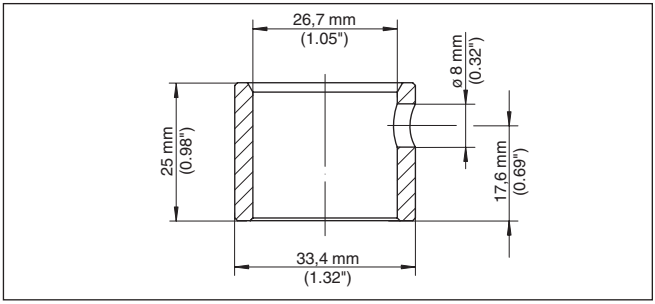

Fig. 41: Dimensions welded socket PMC 1" VEGABAR 54

5 Welded socket - VEGABAR series 80

5.1 VEGABAR 82

Thread G½ - manometer

Data:

Feature	Characteristic
Size	G½
Standard	EN 837
Pressure stage	PN 60
Material	316L
Product code/Art. no.	ESTBR82.DUBKVX
Seal	Sensor side

Dimensions:

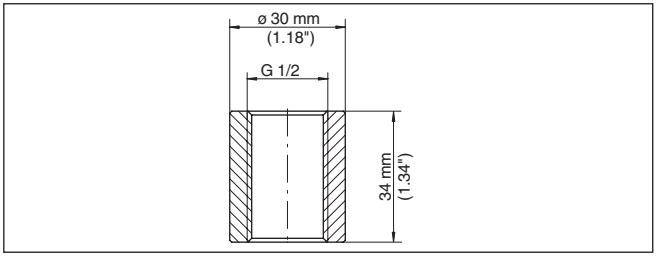

Fig. 42: Dimensions welded socket thread G½ (EN 837) - manometer

Thread G½

Data:

Components	Feature	Characteristic
Welded socket	Size	G½
	Standard	ISO 228-1
	Pressure stage	PN 60
	Material	316L
	Product code/Art. no.	ESTBR82.C3AXVX
Seal (optional)	Material	FFKM
	Configuration	Dichtring
	Size	18.5 x 23.9 x 1.5 mm Viton green DIN 3869

Dimensions:

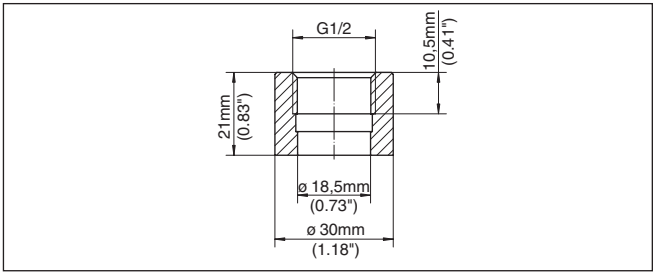

Fig. 43: Dimensions welded socket G½ (ISO 228-1)

Thread G¾

Data:

Components	Feature	Characteristic
Welded socket	Size	G¾
	Standard	DIN 3852-X
	Pressure stage	PN 60
	Material	316L
	Product code/Art. no.	ESTBR82.C1EXVX
Seal (optional)	Material	FKM, EPDM, FFKM
	Configuration	Dichtring
	Size	23.9 x 29.2 x 1.5 mm Viton green DIN 3869

Dimensions:

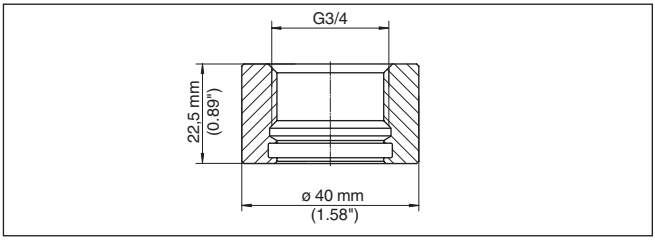

Fig. 44: Dimensions welded socket G¾ (DIN 3852-X)

Thread G1

Data:

Feature	Characteristic
Size	G1
Standard	ISO 228-1
Pressure stage	PN 60
Material	316L
Product code/Art. no.	ESTBR82.C5IXVX

Feature	Characteristic
Seal	Sensor side

Dimensions:

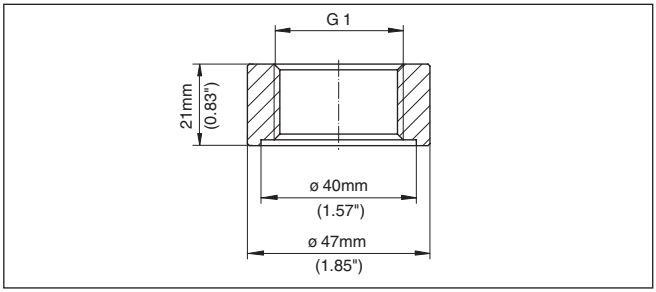

Fig. 45: Dimensions welded socket G1 (ISO 228-1)

Thread G1

Data:

Feature	Characteristic
Size	G1
Standard	DIN 3852-E
Pressure stage	PN 60
Material	316L
Product code/Art. no.	ESTBR82.C7KXVX
Seal	Sensor side

Dimensions:

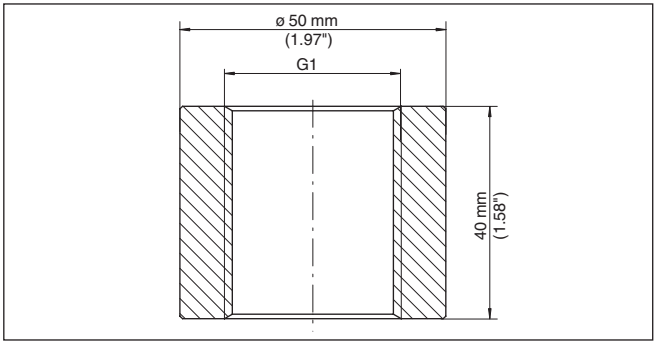

Fig. 46: Dimensions welded socket thread G1 (DIN 3852-E) x 40 mm

Thread G1½

Data:

Feature	Characteristic
Size	G1½
Standard	DIN 3852-A
Pressure stage	PN 60

Feature	Characteristic
Material	316L
Product code/Art. no.	ESTBR82.DAQXVX
Seal	Sensor side

Dimensions:

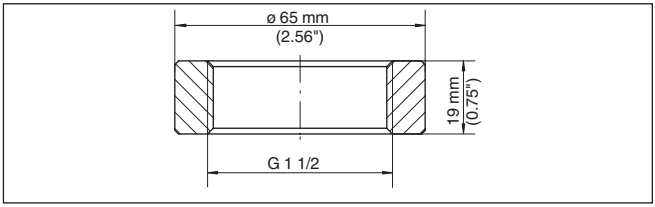

Fig. 47: Dimensions welded socket thread G1½ (DIN 3852-A)

5.2 VEGABAR 82 - extension fitting

M30 x 1.5

Data:

Component	Feature	Characteristic
Welded socket	Size	M30 x 1.5
	Standard	DIN 13
	Pressure stage	PN 60
	Material	316L
	Product code/Art. no.	ESTBR82.ALGXVX
Seal	Sensor side	-
Welding dummy	Material	Brass
	Product code/Art. no.	DMONT.G
Blind plug	Material	316Ti
	Product code/Art. no.	DMONT.I

Dimensions:

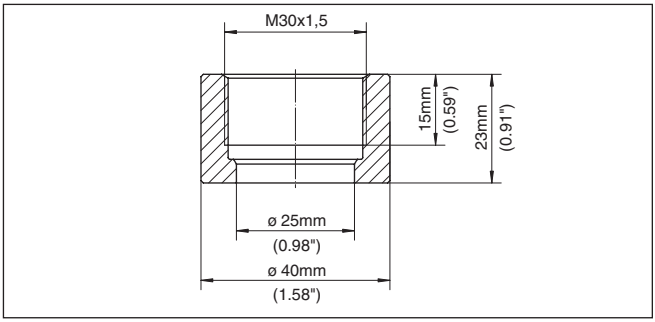

Fig. 48: Dimensions welded socket M30 x 1.5

M30 x 1.5 for headbox

Data:

Component	Feature	Characteristic
Welded socket	Size	M30 x 1.5
	Standard	DIN 13
	Pressure stage	PN 60
	Material	316L
	Product code/Art. no.	ESTBR82.APHXVX
Seal	Sensor side	-
Welding dummy	Material	Brass
	Product code/Art. no.	DMONT.G
Blind plug	Material	316Ti
	Product code/Art. no.	DMONT.I

Dimensions:

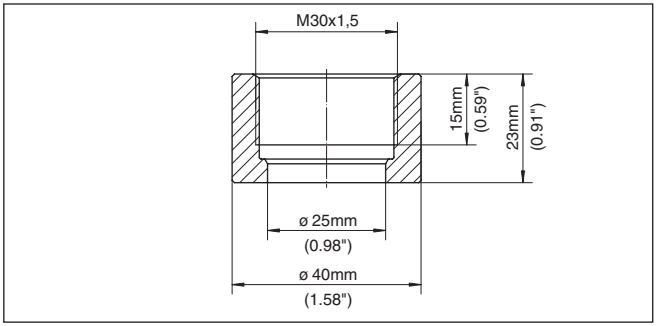

Fig. 49: Dimensions welded socket M30 x 1.5

M44 x 1.25

Data:

Component	Feature	Characteristic
Welded socket	Size	M44 x 1.25
	Standard	DIN 13
	Pressure stage	PN 60
	Material	316L
	Product code/Art. no.	ESTBR82.AFMXVX
Seal (optional)	Material	FKM
	Configuration	O-Ring
	Size	21.04 x 1.78 mm
Welding dummy	Material	Brass
	Product code/Art. no.	DMONT.F
Blind plug	Material	316Ti
	Product code/Art. no.	DMONT.H

Dimensions:

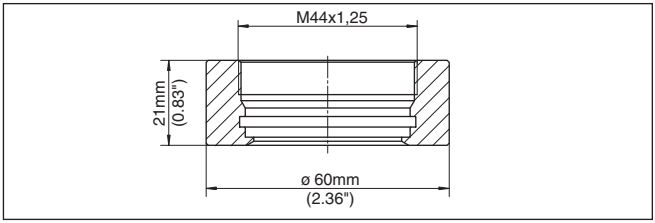

Fig. 50: Dimensions welded socket M30 x 1.25

M48 x 1.5

Data:

Component	Feature	Characteristic
Welded socket	Size	M48 x 1.5
	Standard	-
	Pressure stage	PN 60
	Material	316L
	Product code/Art. no.	ESTBR82.A4SXVX
Seal	Sensor side	-
Welding dummy	Material	Brass
	Product code/Art. no.	DMONT.F
Blind plug	Material	316Ti
	Product code/Art. no.	DMONT.H

Dimensions:

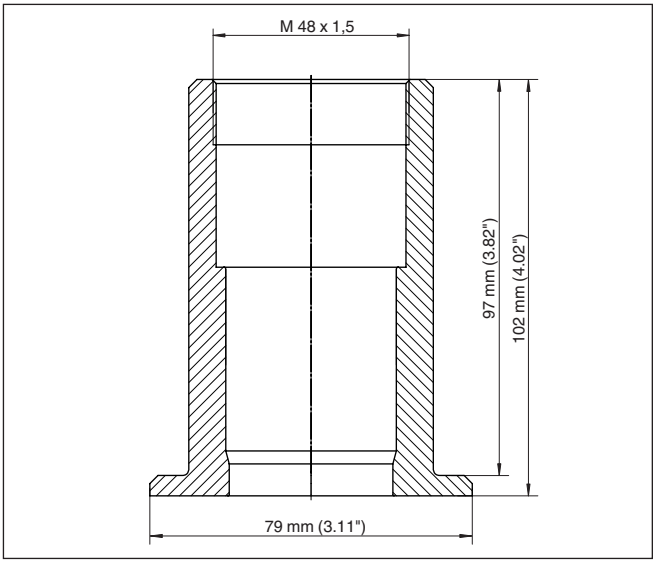

Fig. 51: Dimensions welded socket M48 x 1.5

G1 suitable for PASVE

Data:

Component	Feature	Characteristic
Welded socket	Size	G1
	Standard	ISO 228-1
	Pressure stage	PN 40
	Material	316L
	Product code/Art. no.	ESTBR82.F9HXVX
Seal	Metal or sensor side	-
Welding dummy	Material	Brass
	Product code/Art. no.	DMONT.S
Blind plug	Material	316Ti
	Product code/Art. no.	DMONT.P

Dimensions:

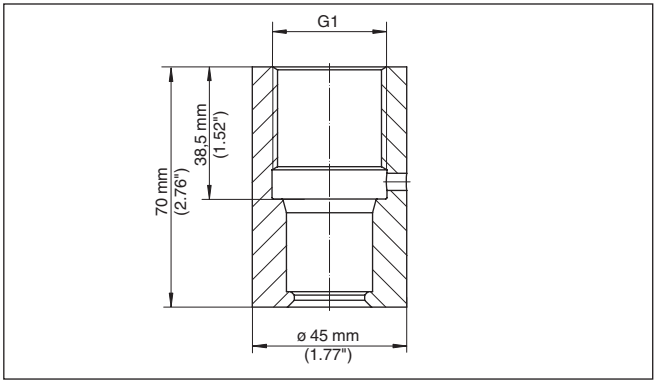

Fig. 52: Dimensions welded socket G1 suitable for PASVE

PMC 1"

Data:

Feature	Characteristic
Size	1"
Standard	-
Pressure stage	PN 6
Material	316L
Product code/Art. no.	ESTBR82.EWDXVX
Seal	Sensor side

Dimensions:

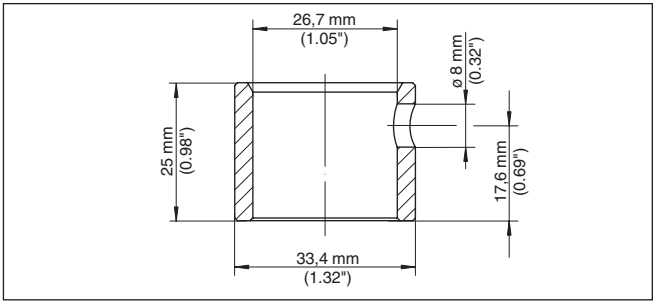

Fig. 53: Dimensions welded socket PMC 1"

5.3 VEGABAR 83

Thread G½ - manometer

Data:

Feature	Characteristic
Size	G½
Standard	EN 837
Pressure stage	PN 60
Material	316L
Product code/Art. no.	ESTBR83.DUBXV
Seal	Sensor side

Dimensions:

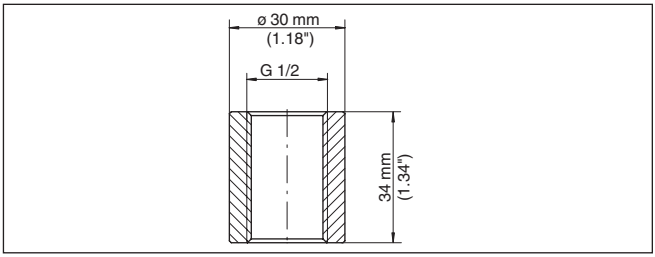

Fig. 54: Dimensions welded socket thread G½ (EN 837)

Thread G½ - vessel

Data:

Feature	Characteristic
Size	G½
Standard	ISO 228-1
Pressure stage	PN 60
Material	316L
Product code/Art. no.	ESTBR83.XXXXV
Seal	Sensor side

Dimensions:

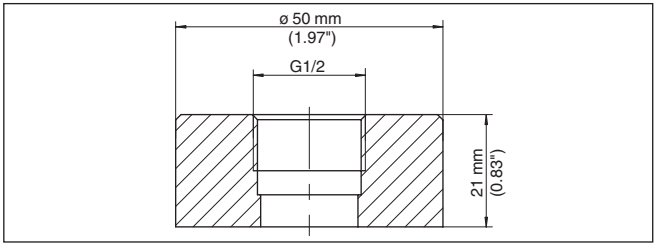

Fig. 55: Dimensions welded socket G½ (ISO 228-1) - vessel

Thread G½ - pipeline

Data:

Feature	Characteristic
Size	G½
Standard	ISO 228-1
Pressure stage	PN 60
Material	316L
Product code/Art. no.	ESTBR83.XXXXV
Seal	Sensor side

Dimensions:

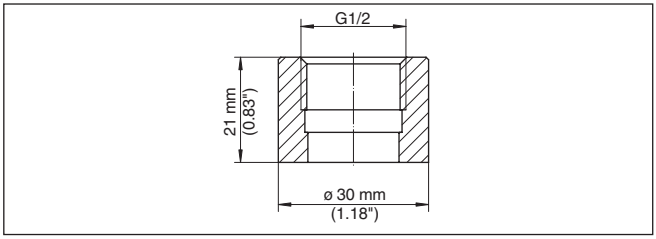

Fig. 56: Dimensions welded socket G½ B (ISO 228-1) - pipeline

Thread G1

Data:

Feature	Characteristic
Size	G1
Standard	ISO 228-1
Pressure stage	PN 16
Material	316L
Product code/Art. no.	ESTBR83.C5IXV
Seal	Sensor side

Dimensions:

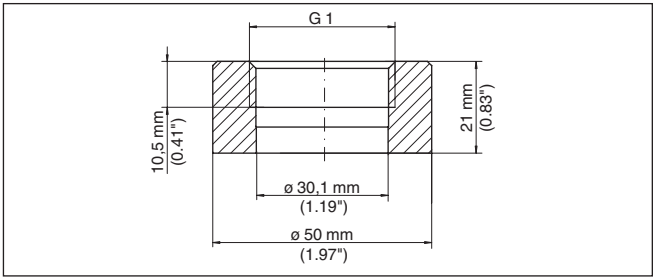

Fig. 57: Dimensions welded socket G1 (ISO 228-1)

Thread G1 hygienic

Data:

Feature	Characteristic
Size	G1
Standard	ISO 228-1
Pressure stage	PN 16
Material	316L
Product code/Art. no.	ESTBR83.XXXXV
Seal	Sensor side

Dimensions:

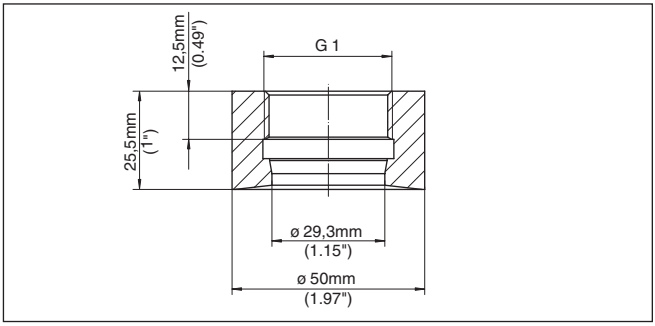

Fig. 58: Dimensions welded socket G1 (ISO 228-1) aseptic

6 Welded socket - Level switch

6.1 VEGASWING 51, 61, 63

Thread G¾

Data:

Components	Feature	Characteristic
Welded socket	Size	G¾
	Standard	DIN 3852-X
	Pressure stage	PN 60
	Material	316L
	Product code/Art. no.	ESTSG.1GAX1
Seal (optional)	Material	FKM, EPDM
	Configuration	O-ring
	Size	21 x 3 mm

Dimensions:

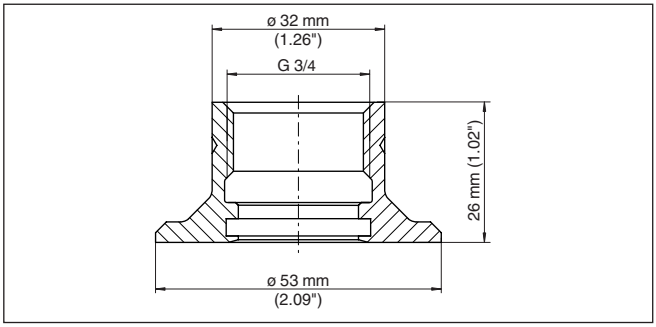

Fig. 59: Dimensions welded socket G¾ (DIN 3852-X)

Thread G1

Data:

Components	Feature	Characteristic
Welded socket	Size	G¾
	Standard	DIN 3852-X
	Pressure stage	PN 60
	Material	316L
	Product code/Art. no.	ESTSG.1GAX1
Seal (optional)	Material	FKM, EPDM
	Configuration	O-ring
	Size	21 x 3 mm

Dimensions:

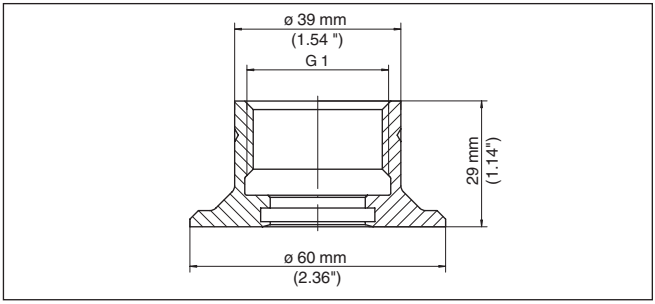

Fig. 60: Dimensions welded socket G1 (DIN 3852-X)

6.2 VEGAKON 61

Thread G1

Data:

Feature	Characteristic
Size	G1
Standard	DIN 3852-X
Pressure stage	PN 25
Material	316Ti
Product code/Art. no.	ESTKN.1GA
Seal	Sensor side 33 x 39 x 2 mm

Dimensions:

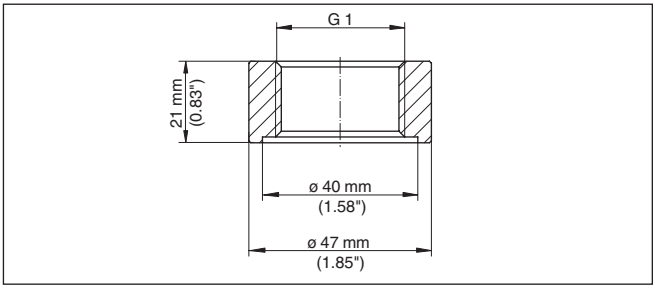

Fig. 61: Dimensions welded socket G1 (DIN 3852-X)

7 Adapter

7.1 G¾ on Clamp DIN 32676, ISO 2852

Clamp 1½"

Data:

Components	Feature	Characteristic
Adapter	Size, sensor side	G¾
	Standard	DIN 3852-X
	Size, process side	Clamp 1½"
	Standard	DIN 32676, ISO 2852
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	GEWADA-A.CG1
Seal (optional)	Material	FKM, EPDM
	Configuration	Seal ring
	Size	ø 50.5 - 35.3 mm

Dimensions:

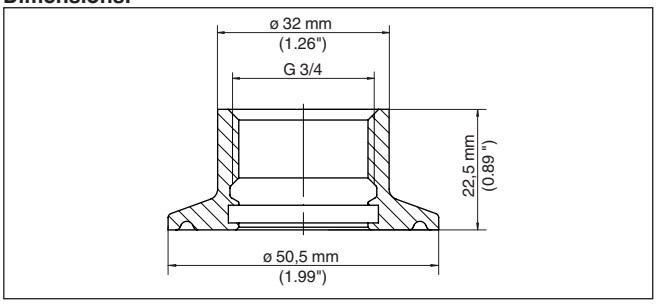

Fig. 62: Dimensions adapter G¾ (DIN 3852-X) on Clamp 1½" (DIN 32676, ISO 2852) PN 16

Clamp 2"

Data:

Components	Feature	Characteristic
Adapter	Size, sensor side	G¾
	Standard	DIN 3852-X
	Size, process side	Clamp 2"
	Standard	DIN 32676, ISO 2852
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	GEWADA-A.CA1
Seal (optional)	Material	FKM, EPDM
	Configuration	Seal ring
	Size	ø 64 - 48 mm

Dimensions:

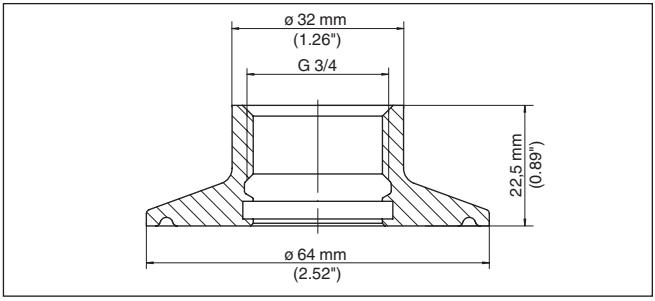

Fig. 63: Dimensions adapter G¾ (DIN 3852-X) on Clamp 2" (DIN 32676, ISO 2852) PN 16

Clamp 2½"

Data:

Components	Feature	Characteristic
Adapter	Size, sensor side	G¾
	Standard	DIN 3852-X
	Size, process side	Clamp 2½"
	Standard	DIN 32676, ISO 2852
	Pressure stage	PN 16
	Product code/Art. no.	GEWADA-A.CD1
Seal (optional)	Material	FKM, EPDM
	Configuration	Seal ring
	Size	ø 77.5 - 60.7 mm

Dimensions:

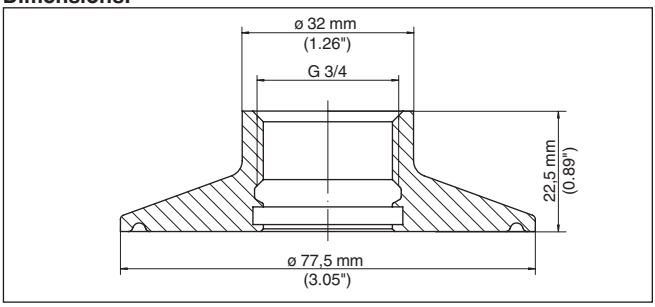

Fig. 64: Dimensions adapter G¾ (DIN 3852-X) on Clamp 2½" (DIN 32676, ISO 2852) PN 16

Clamp 3"

Data:

Components	Feature	Characteristic
Adapter	Size, sensor side	G¾
	Standard	DIN 3852-X

Components	Feature	Characteristic
	Size, process side	Clamp 3"
	Standard	DIN 32676, ISO 2852
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	GEWADA-A.CE1
Seal (optional)	Material	FKM, EPDM
	Configuration	Seal ring
	Size	ø 91 - 72.3 mm

Dimensions:

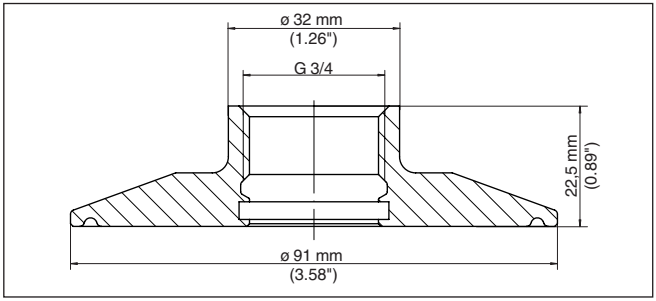

Fig. 65: Dimensions adapter G¾ (DIN 3852-X) on Clamp 3" (DIN 32676, ISO 2852) PN 16

Clamp 4"

Data:

Components	Feature	Characteristic
Adapter	Size, sensor side	G¾
	Standard	DIN 3852-X
	Size, process side	Clamp 4"
	Standard	DIN 32676, ISO 2852
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	GEWADA-A.CC1
Seal (optional)	Material	FKM, EPDM
	Configuration	Seal ring
	Size	ø 119 - 97.8 mm

Dimensions:

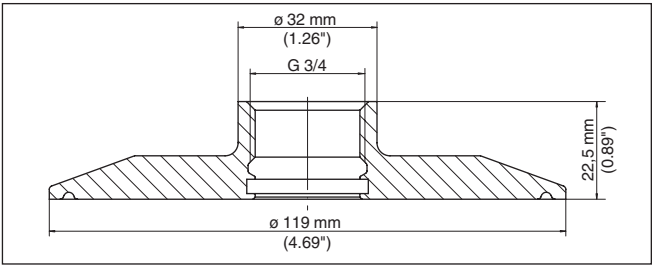

Fig. 66: Dimensions adapter G¾ (DIN 3852-X) on Clamp 4" (DIN 32676, ISO 2852) PN 16

7.2 G¾ on bolting DIN 11851

Bolting DN 40

Data:

Components	Feature	Characteristic
Bolting	Size, sensor side	G¾
	Standard	DIN 3852-X
	Size, process side	DN 40
	Standard	DIN 11851
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	GEWADA-A.RA1
Seal (optional)	Material	FKM, EPDM
	Configuration	Seal ring
	Size	ø 42 x 52 x 5 mm

Dimensions:

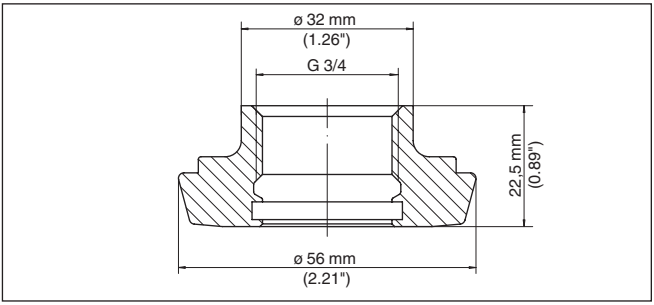

Fig. 67: Dimensions adapter G¾ (DIN 3852-X) on bolting DN 40 (DIN 11851) PN 16

Bolting DN 50

Data:

Feature	Characteristic
Size, sensor side	G¾
Standard	DIN 3852-X
Size, process side	DN 50
Standard	DIN 11851
Pressure stage	PN 16
Material	316L
Product code/Art. no.	GEWADA-A.RB1
Seal (optional)	FKM, EPDM

Dimensions:

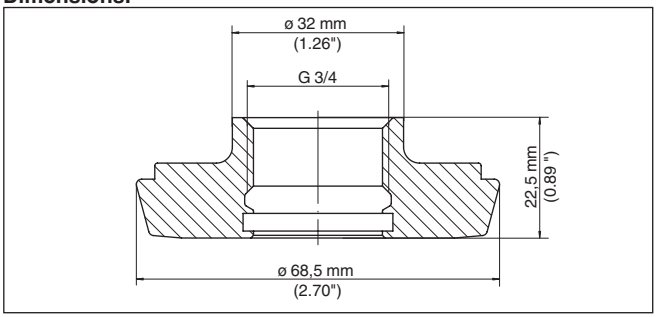

Fig. 68: Dimensions adapter G¾ (DIN 3852-X) on bolting DN 40 (DIN 11851) PN 16

Bolting DN 65

Data:

Components	Feature	Characteristic
Bolting	Size, sensor side	G¾
	Standard	DIN 3852-X
	Size, process side	DN 65
	Standard	DIN 11851
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	GEWADA-A.RC1
Seal (optional)	Material	FKM, EPDM
	Configuration	Seal ring
	Size	ø 71 x 81 x 5 mm

Dimensions:

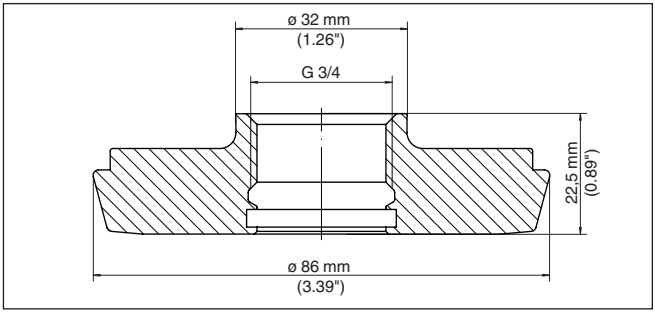

Fig. 69: Dimensions adapter G¾ (DIN 3852-X) on bolting DN 40 (DIN 11851) PN 16

Bolting DN 100

Data:

Components	Feature	Characteristic
Bolting	Size, sensor side	G¾
	Standard	DIN 3852-X
	Size, process side	DN 100
	Standard	DIN 11851
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	GEWADA-A.RD1
Seal (optional)	Material	FKM, EPDM
	Configuration	Seal ring
	Size	ø 104 x 114 x 6 mm

Dimensions:

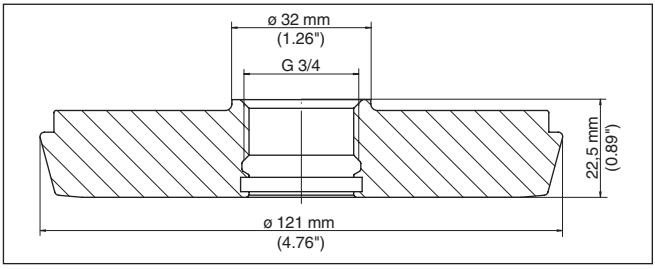

Fig. 70: Dimensions adapter G¾ (DIN 3852-X) on bolting DN 40 (DIN 11851) PN 16

7.3 G¾ on further hygienic fittings

DRD connection

Data:

Components	Feature	Characteristic
	Size, sensor side	G¾
	Standard	DIN 3852-X
	Size, process side	-
	Standard	DRD
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	GEWADA-A.AA1
Seal (optional)	Material	FKM, EPDM
	Configuration	Flat seal
	Size	50 x 66 x 1 mm

Dimensions:

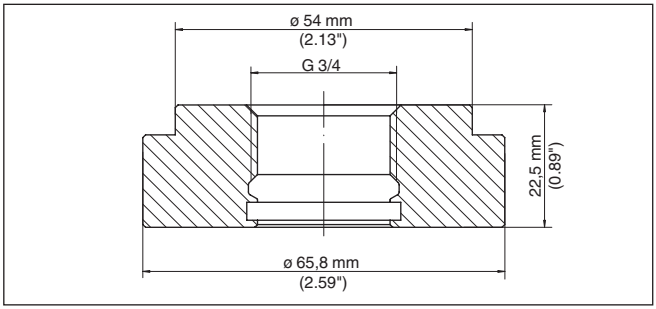

Fig. 71: Dimensions adapter G¾ (DIN 3852-X) on DRD

Tuchenhagen DN 32

Data:

Components	Feature	Characteristic
	Size, sensor side	G¾
	Standard	DIN 3852-X
	Size, process side	DN 32
	Standard	Tuchenhagen
	Pressure stage	PN 16
	Material	316L
	Product code/Art. no.	GEWADA-A.AA1
Seal (optional)	Material	FKM, EPDM
	Configuration	Flat seal
	Size	50 x 66 x 1 mm

Dimensions:

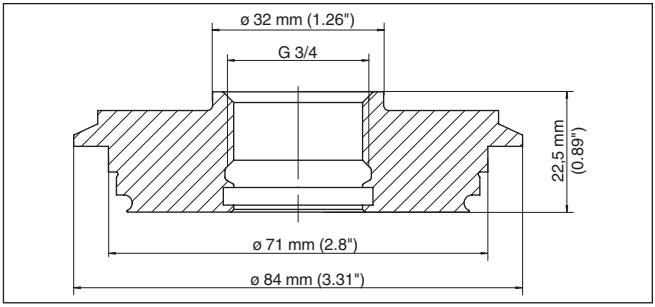

Fig. 72: Dimensions adapter G¾ (DIN 3852-X) on Tuchenhagen DN 32

7.4 G1½ on Clamp DIN 32676, ISO 2852

Clamp 3"

Data:

Feature	Characteristic
Size, sensor side	G1½
Standard	DIN 3852-X
Size, process side	Clamp 3"
Standard	DIN 32676, ISO 2852
Pressure stage	PN 16
Material	316L
Product code/Art. no.	GEWADA-A.CE1
Seal (optional)	FKM, EPDM

Dimensions:

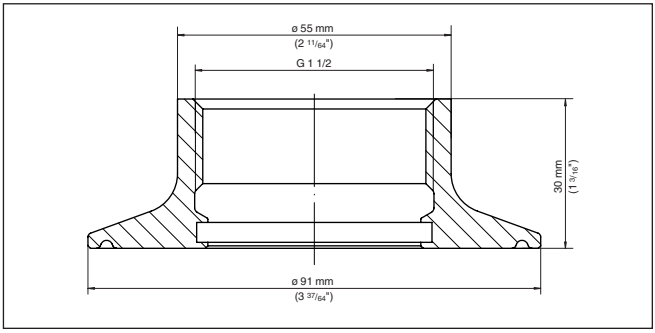

Fig. 73: Dimensions adapter G1½ (DIN 3852-X) on Clamp 3" (DIN 32676, ISO 2852) PN 16

8 Welding instructions

Information:
The following welding instructions are for information only. In general, the relevant welding regulations must be noted. The AD leaflets must also be noted when welding on pressure vessels.

Preparations

When welding stainless steel, utmost cleanness is necessary. E.g. it is not allowed to use rusty tools or screwed parts. Also make sure that no mild steel is processed in the closer environment.

Use enought inert gase for tack-welding. Make sure that you use tack-welding and not spot-welding. For tack-welding and welding, the protective gas pure argon must be used.

Welding dummy

The suitable welding dummy must be used to avoid the distortion of the welded socket.

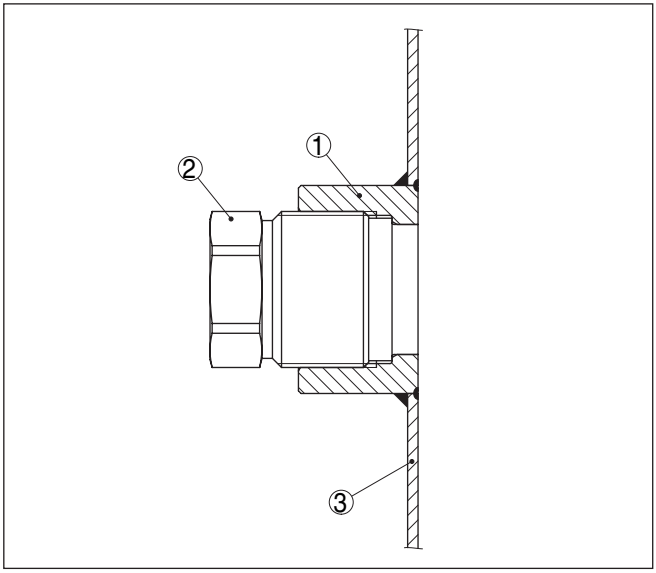

Fig. 74: Welding dummy

1 Welded socket
2 Dummy
3 Pipeline or vessel wall

Welding procedure

It is generally recommended to divide the weld joint into several segments.

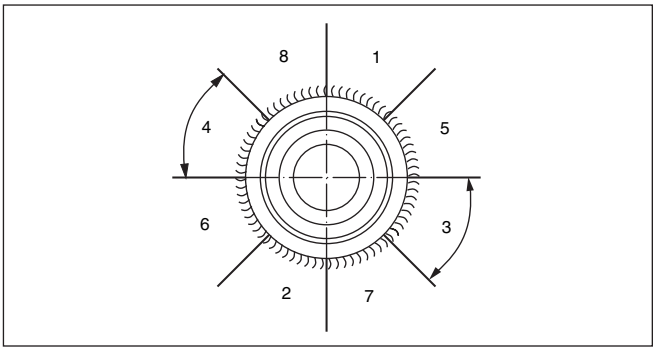

Fig. 75: Segmental welding

After welding a segment, weld immediately the segment that lies exactly opposite. Interrupt the welding process after welding two segments until the weld joint cools or carefully cool the weld joint yourself before you start welding again.

Pressure bearing

The pressure loading capacity depends on the quality of the welding as well as the material of the welded socket. With threaded sockets, the thread length must be used completely bearing.

9 Supplement

9.1 Technical data

General data

Material 316L corresponds to 1.4404 or 1.4435, 316Ti corresponds to 1.4571.

Max. process temperature on the welded socket, depending on the seal

– FKM	-20 … +120 °C (-4 … +248 °F)
– FFKM	-20 … +120 °C (-4 … +248 °F)
– EPDM	-40 … +120 °C (-40 … +248 °F)
– EPDM, cleaning temperature 1 h, max.	-40 … +140 °C (-40 … +284 °F)
– NBR	-20 … +105 °C (-4 … +221 °F)

Printing date:

All statements concerning scope of delivery, application, practical use and operating conditions of the sensors and processing systems correspond to the information available at the time of printing.
Subject to change without prior notice

© VEGA Grieshaber KG, Schiltach/Germany 2014

32036-EN-140108

VEGA Grieshaber KG
Am Hohenstein 113
77761 Schiltach
Germany

Phone +49 7836 50-0
Fax +49 7836 50-201
E-mail: info.de@vega.com
www.vega.com